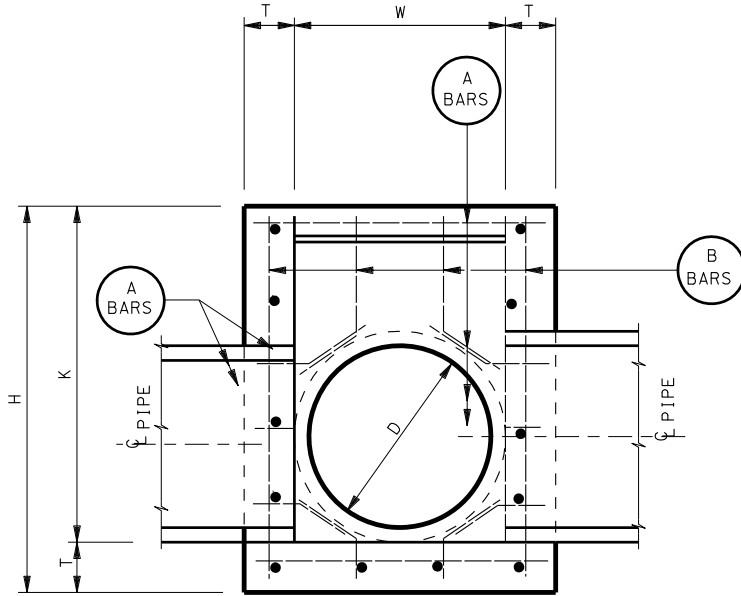
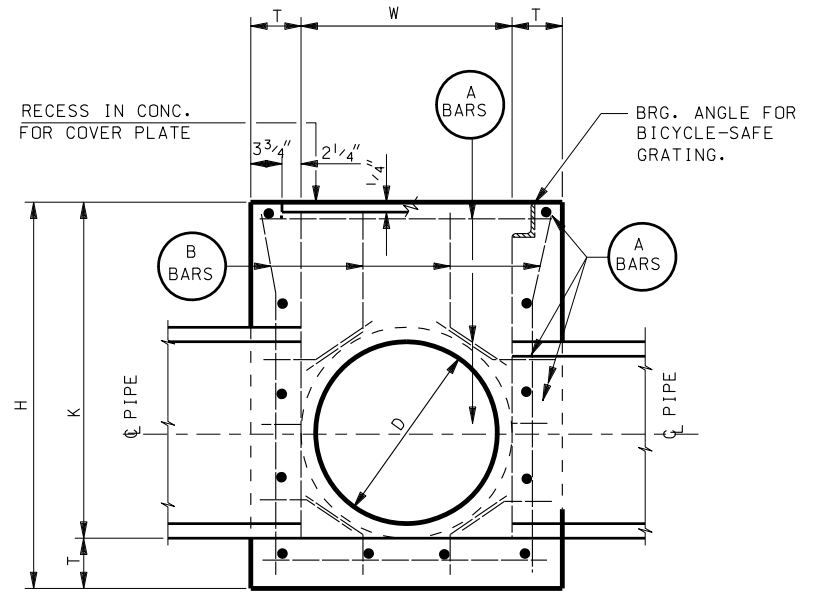


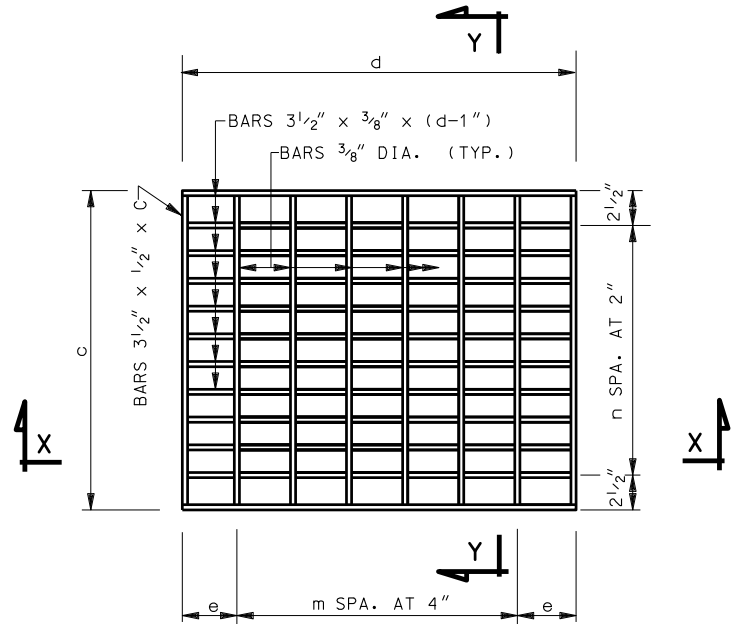
PLAN



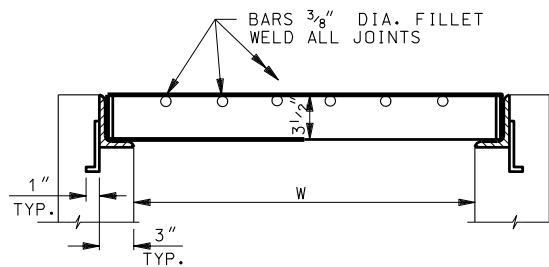
SECTION A-A



SECTION B-B

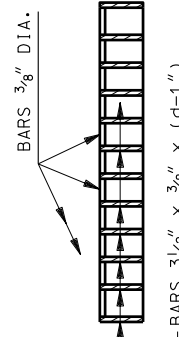


PLAN (GRATING)

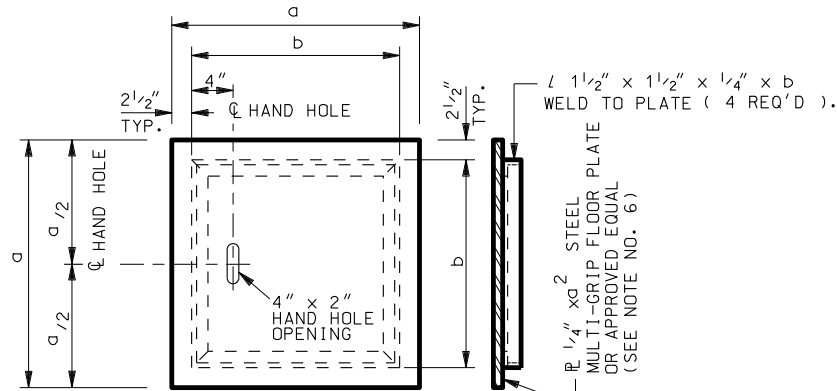
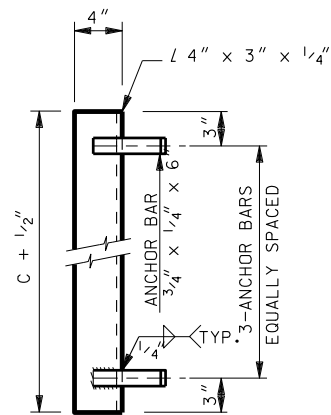


SECTION X-X

BICYCLE-SAFE GRATING



SECTION Y-Y



STEEL COVER PLATE DETAILS

NOTES:

1. USE COATED DEFORMED REINFORCING STEEL BARS CONFORMING TO AASHTO M 284 OR M 111 AND M 31 GRADE 60 RESPECTIVELY.
2. FIELD CUT AND BEND REINFORCING STEEL AS NECESSARY TO CLEAR PIPES AND MAINTAIN 2" COVER. REPAIR ANY DAMAGE OR CUTS TO THE EPOXY COATING ON REINFORCING BARS.
3. USE CLASS AA (AE) CONCRETE.
4. USE TYPE II CEMENT (LOW ALKALI).
5. PROVIDE 2" CONCRETE COVER TO REINFORCING STEEL.
6. HOT-DIP GALVANIZE GRATING AND BEARING ANGLES AFTER FABRICATION IN ACCORDANCE WITH AASHTO DESIGNATION M 111 (ASTM 123).

DESIGN DATA

HS 20-44 OR ALTERNATE LOADING IN ACCORDANCE WITH CURRENT AASHTO INTERIM SPECIFICATIONS FOR CAST IN PLACE STRUCTURAL CONCRETE.

REINFORCING STEEL	$F_s = 24,000$ psi
STRUCTURAL STEEL	$F_s = 20,000$ psi
STRUCTURAL CONCRETE	$f_c = 1,400$ psi
	$n = 8$

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION

STANDARD DIVERSION
BOX/COVER PLATE/
GRATING FOR
18" DIA. OR 24" DIA. PIPE

RECOMMENDED FOR APPROVAL
SAFETY ENGINEER
JAN.01.2008
DATE
JAN.01.2008
DATE
DEPUTY DIRECTOR

STANDARD DRAWING TITLE

STD DWG
DB 1A

REVISIONS

REMARKS